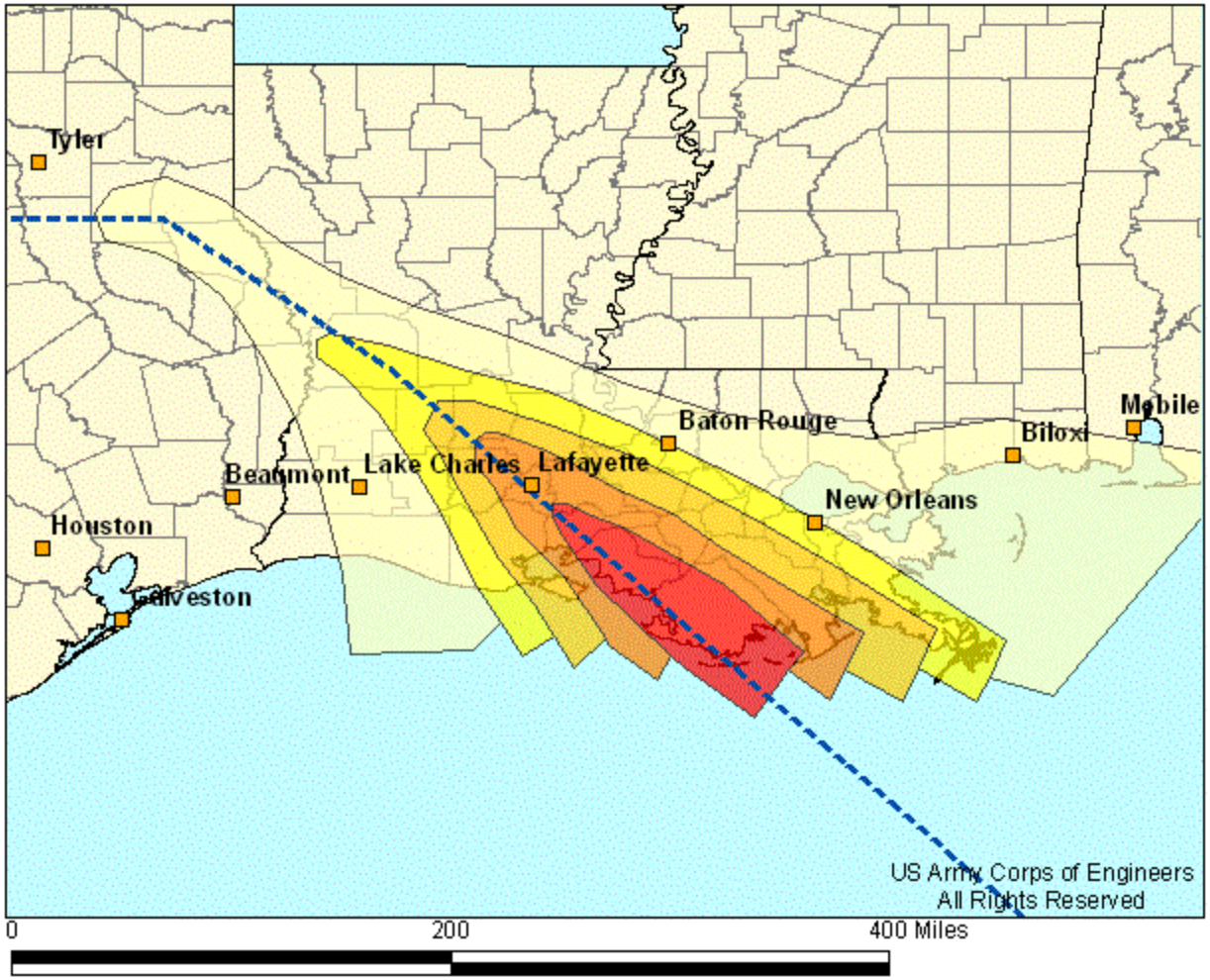
Hurricane Gustav Projected Damage Areas

US Army Corps of Engineers

Landfall Expected In About 47 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (1700 EDT 08/30/2008) forecast.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Projected Damage Areas

Generated By:
Siemsen, LRL 1830 EDT 08/30/2008

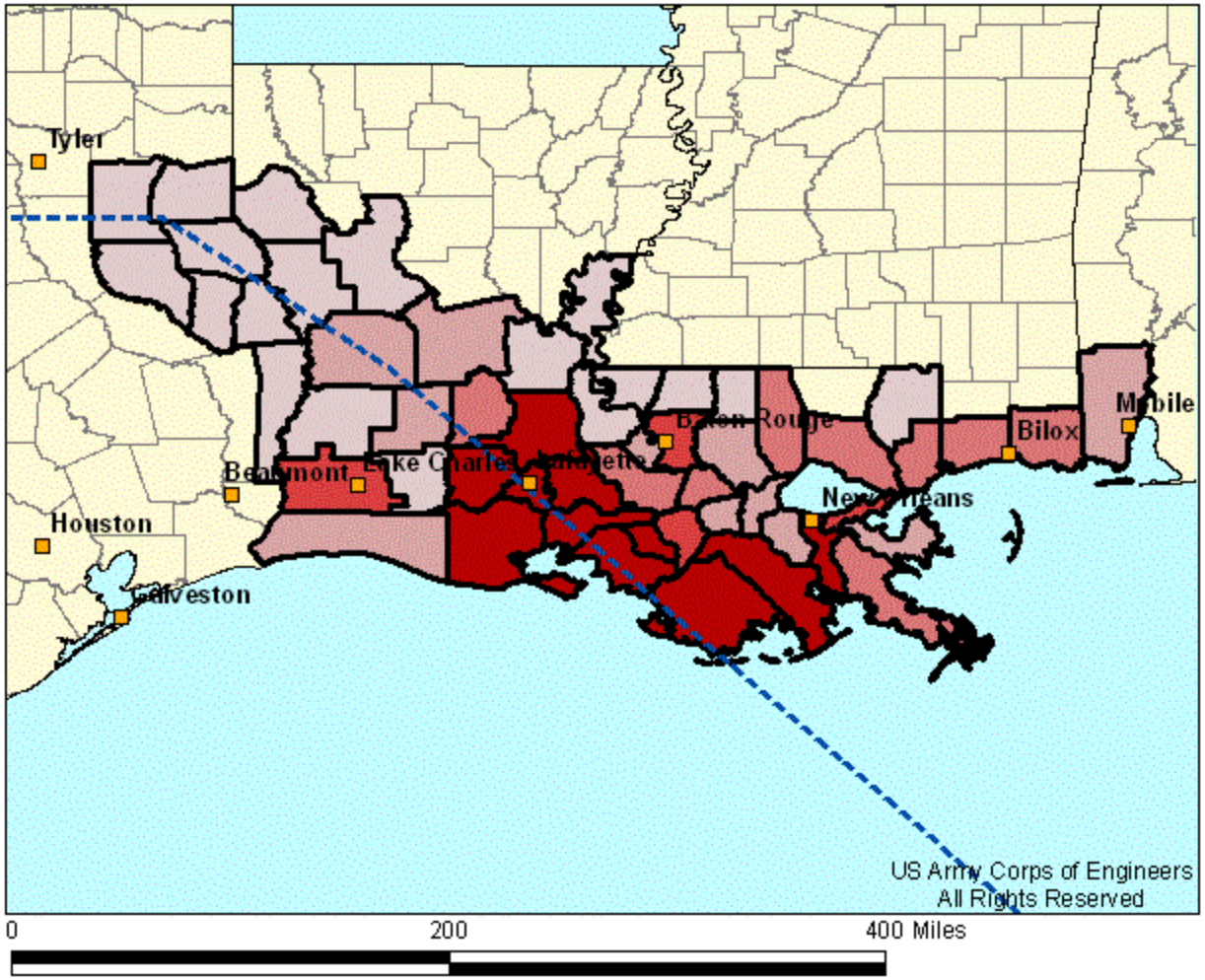
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Debris Model

Landfall Expected In About 47 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Louisiana - 31,919,000 Yards
Mississippi - 1,209,000 Yards
Texas - 189,000 Yards
Alabama - 157,000 Yards

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (1700 EDT 08/30/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Debris Model

Generated By:
Siemsen, LRL 1830 EDT 08/30/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Debris Model

Landfall Expected In About 47 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Alabama		Mobile	157,000
Alabama	157,000		
Louisiana		Acadia	1,015,000
		Allen	115,000
		Ascension	307,000
		Assumption	581,000
		Avoyelles	52,000
		Beauregard	69,000
		Calcasieu	555,000
		Cameron	211,000
		Concordia	< 1,000
		De Soto	3,000
		East Baton Rouge	875,000
		East Feliciana	18,000
		Evangeline	295,000
		Iberia	3,075,000
		Iberville	263,000
		Jefferson	1,203,000
		Jefferson Davis	96,000
		Lafayette	6,048,000
		Lafourche	2,403,000
		Livingston	156,000
		Natchitoches	9,000
		Orleans	501,000
		Plaquemines	396,000
		Pointe Coupee	53,000
		Rapides	110,000
		Sabine	52,000
		St Bernard	132,000
		St Charles	155,000

State	Yards per State	County	Yards per County
Louisiana		St Helena	3,000
(continued)		St James	122,000
		St John the Baptist	121,000
		St Landry	1,721,000
		St Martin	1,806,000
		St Mary	2,888,000
		St Tammany	281,000
		Tangipahoa	409,000
		Terrebonne	4,026,000
		Vermilion	1,465,000
		Vernon	153,000
		West Baton Rouge	164,000
		West Feliciana	12,000
Louisiana	31,919,000		
Mississippi		Hancock	363,000
		Harrison	381,000
		Jackson	398,000
		Pearl River	67,000
Mississippi	1,209,000		
Texas		Nacogdoches	5,000
		Newton	13,000
		Panola	36,000
		Rusk	48,000
		Sabine	21,000
		San Augustine	11,000
		Shelby	55,000
Texas	189,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Debris Model

Generated By:
Siemsen, LRL 1830 EDT 08/30/2008

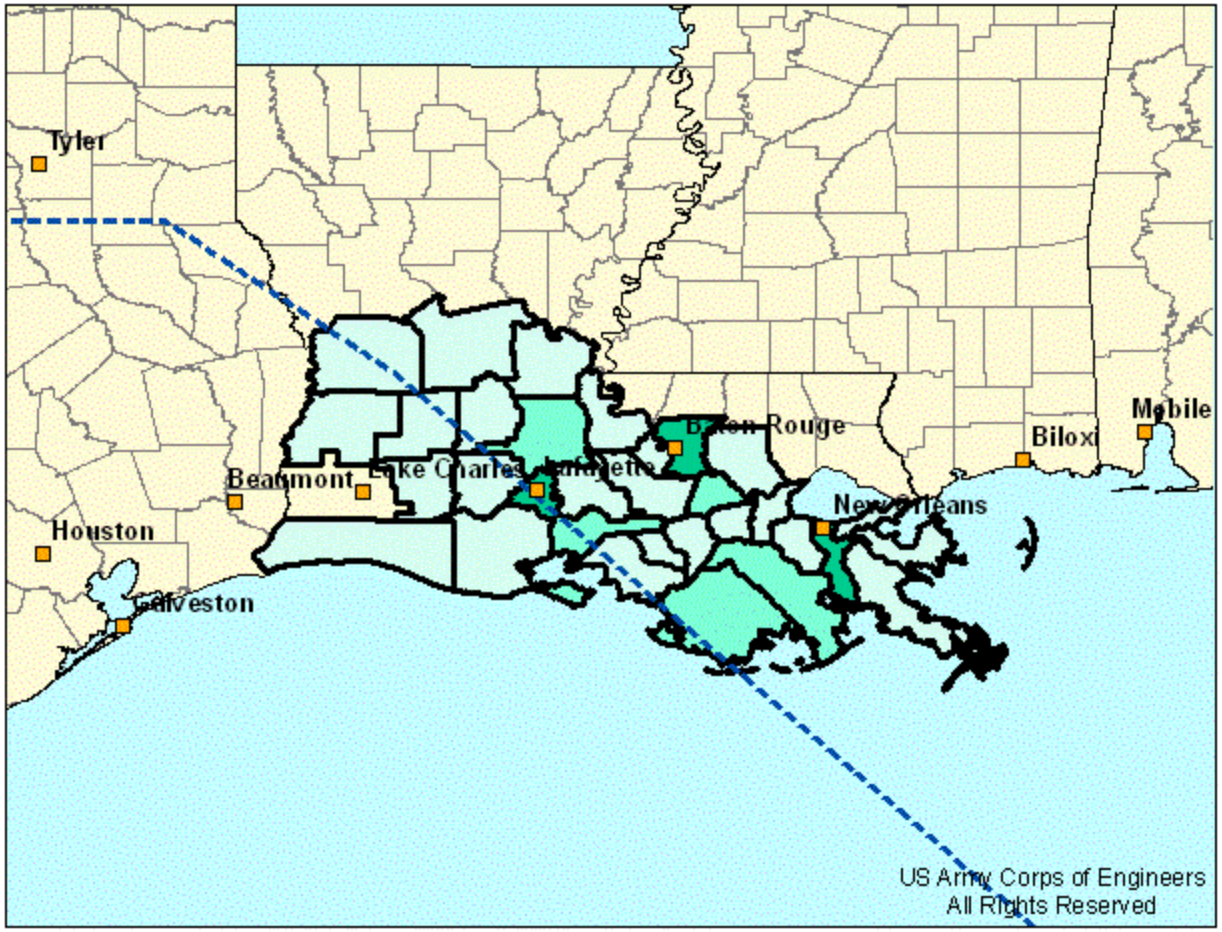
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Commodities Model

Landfall Expected In About **47** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
Louisiana – 32/64/128 Truckloads

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC ***(1700 EDT 08/30/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Commodities Model

Generated By:
Siemsen, LRL 1830 EDT 08/30/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Commodities Model

Landfall Expected In About 47 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Louisiana		Acadia	4
		Allen	2
		Ascension	6
		Assumption	2
		Avoyelles	1
		Beauregard	1
		Cameron	1
		East Baton Rouge	15
		Evangeline	3
		Iberia	5
		Iberville	2
		Jefferson	19
		Jefferson Davis	2
		Lafayette	12
		Lafourche	6
		Livingston	1
		Orleans	4
		Plaquemines	2
		Pointe Coupee	1
		Rapides	1
		St Bernard	1
		St Charles	3
		St James	2
		St John the Baptist	3
		St Landry	6
		St Martin	4
		St Mary	3
		Terrebonne	7
		Vermilion	4
		Vernon	3
		West Baton Rouge	2

State	Truckloads per State	County	Truckloads per County
Louisiana (continued)	128		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Gustav Commodities Model

Generated By:
Siemsen, LRL 1830 EDT 08/30/2008

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Gustav Temporary Roofing Model

US Army Corps of Engineers

Landfall Expected In About **47** Hours

For Planning Purposes Only!

Post Landfall Temporary Roofing Model Results

Louisiana - 48,100

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (1700 EDT 08/30/2008) forecast. Temporary roofing is based on 3% in CAT 1, 6% in CAT 2, 12% in CAT 3 and 20% in CAT 4.

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Roofing Model	
Generated By: Siemsen, LRL 1830 EDT 08/30/2008	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

US Army Corps of Engineers

Hurricane Gustav Temporary Roofing Model

Landfall Expected In About 47 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Louisiana		Acadia	1,900
		Allen	300
		Ascension	1,300
		Assumption	1,000
		Avoyelles	< 100
		Beauregard	< 100
		Cameron	< 100
		East Baton Rouge	2,600
		Evangeline	800
		Iberia	4,300
		Iberville	700
		Jefferson	3,700
		Jefferson Davis	300
		Lafayette	8,400
		Lafourche	3,400
		Livingston	< 100
		Orleans	700
		Plaquemines	300
		Pointe Coupee	200
		Rapides	< 100
		St Bernard	< 100
		St Charles	600
		St James	400
		St John the Baptist	500
		St Landry	2,800
		St Martin	2,400
		St Mary	3,700
		Terrebonne	5,100
		Vermilion	2,000
		Vernon	400
		West Baton Rouge	300

State	House Units per State	County	House Units per County
Louisiana	48,100		
(continued)			

Temporary roofing is based on 3% in CAT 1, 6% in CAT 2, 12% in CAT 3 and 20% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Gustav Roofing Model

Generated By:
Siemsen, LRL 1830 EDT 08/30/2008

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Gustav Temporary Housing Model

US Army Corps of Engineers

Landfall Expected In About **47** Hours

For Planning Purposes Only!

Post Landfall Temporary Housing Model Results

Louisiana - 7,700

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (1700 EDT 08/30/2008) forecast. Temporary housing is based on 1% in CAT 2, 2% in CAT 3 and 5% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Housing Model	
Generated By: Siemsen, LRL 1830 EDT 08/30/2008	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 13

US Army Corps of Engineers

Hurricane Gustav Temporary Housing Model

Landfall Expected In About **47** Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Louisiana		Acadia	400
		Allen	< 100
		Ascension	< 100
		Assumption	200
		Evangeline	200
		Iberia	1,200
		Iberville	200
		Jefferson	< 100
		Jefferson Davis	< 100
		Lafayette	1,500
		Lafourche	600
		Plaquemines	< 100
		Pointe Coupee	< 100
		St Charles	< 100
		St James	< 100
		St John the Baptist	< 100
		St Landry	500
		St Martin	500
		St Mary	1,000
		Terrebonne	1,000
		Vermilion	400
		West Baton Rouge	< 100
Louisiana	7,700		

Temporary housing is based on 1% in CAT 2, 2% in CAT 3 and 5% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Housing Model

Generated By:
Siemsen, LRL 1830 EDT 08/30/2008

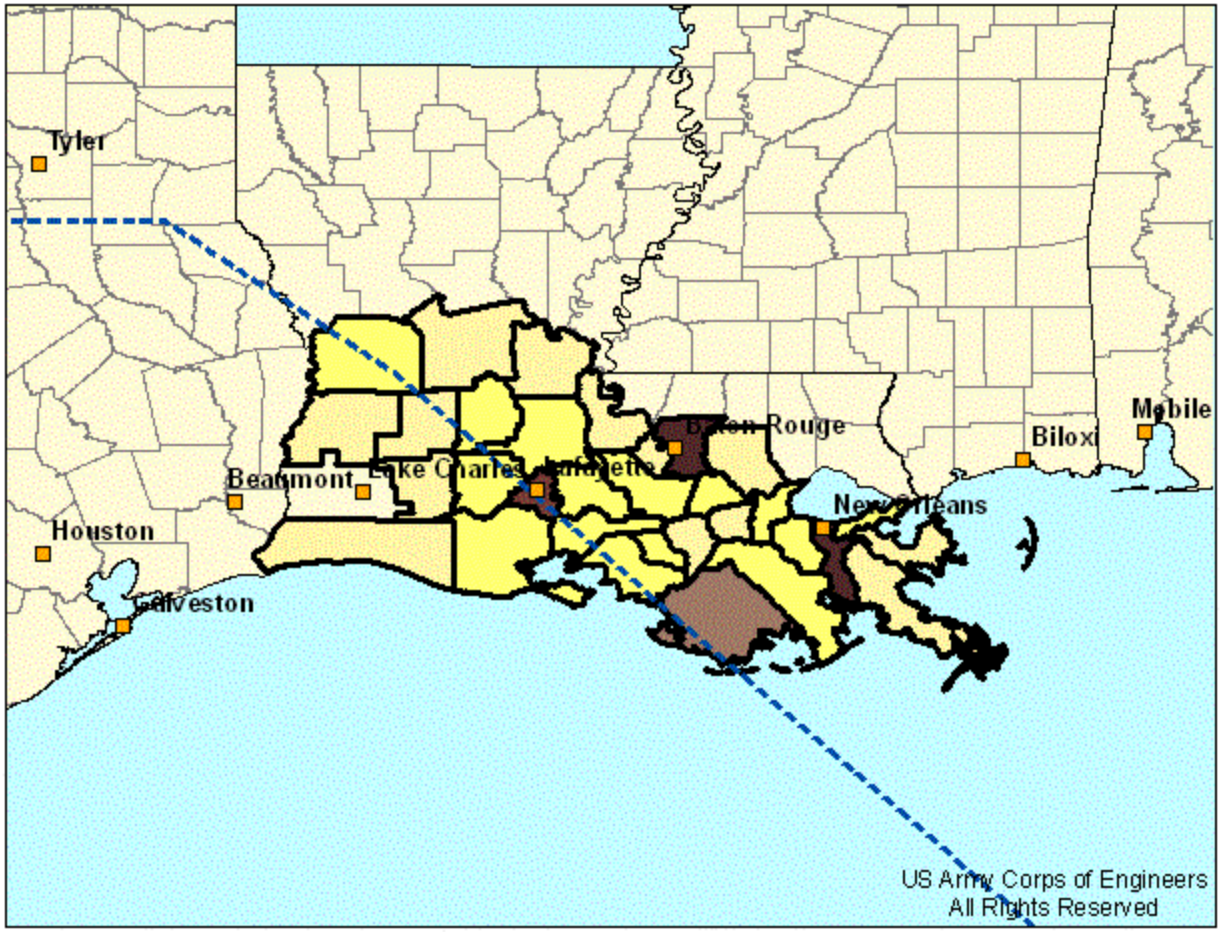
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Population Model

Landfall Expected In About 47 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Louisiana - 1,897,000

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (1700 EDT 08/30/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Population Model

Generated By:
Siemsen, LRL 1830 EDT 08/30/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Population Model

Landfall Expected In About 47 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Louisiana		Acadia	60,000
		Allen	24,000
		Ascension	100,000
		Assumption	23,000
		Avoyelles	4,000
		Beauregard	4,000
		Cameron	< 1,000
		East Baton Rouge	257,000
		Evangeline	36,000
		Iberia	76,000
		Iberville	33,000
		Jefferson	326,000
		Jefferson Davis	22,000
		Lafayette	205,000
		Lafourche	93,000
		Livingston	7,000
		Orleans	52,000
		Plaquemines	20,000
		Pointe Coupee	11,000
		Rapides	5,000
		St Bernard	< 1,000
		St Charles	52,000
		St James	22,000
		St John the Baptist	47,000
		St Landry	91,000
		St Martin	52,000
		St Mary	52,000
		Terrebonne	109,000
		Vermilion	56,000
		Vernon	35,000
		West Baton Rouge	23,000

State	Population per State	County	Population per County
Louisiana	1,897,000		
(continued)			

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Population Model

Generated By:
Siemsen, LRL 1830 EDT 08/30/2008

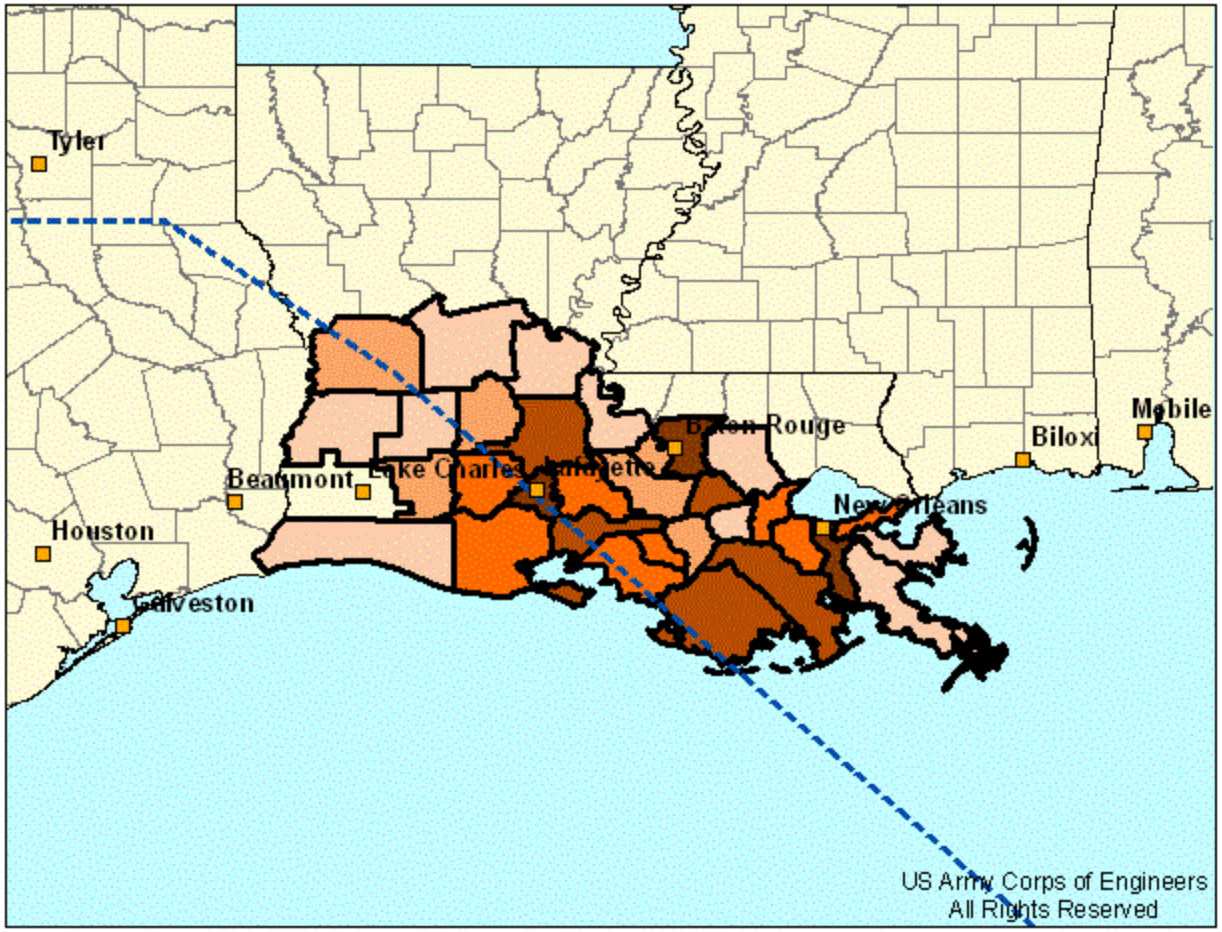
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Households Model

Landfall Expected In About 47 Hours

For Planning Purposes Only!



Post Landfall Households Model Results

Louisiana - 705,000

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (1700 EDT 08/30/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Households Model	
Generated By: Siemsen, LRL 1830 EDT 08/30/2008	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Gustav Households Model

Landfall Expected In About 47 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Louisiana		Acadia	22,000
		Allen	8,000
		Ascension	35,000
		Assumption	9,000
		Avoyelles	2,000
		Beauregard	2,000
		Cameron	< 1,000
		East Baton Rouge	103,000
		Evangeline	13,000
		Iberia	27,000
		Iberville	11,000
		Jefferson	121,000
		Jefferson Davis	8,000
		Lafayette	78,000
		Lafourche	34,000
		Livingston	3,000
		Orleans	23,000
		Plaquemines	7,000
		Pointe Coupee	4,000
		Rapides	2,000
		St Bernard	< 1,000
		St Charles	18,000
		St James	8,000
		St John the Baptist	16,000
		St Landry	34,000
		St Martin	19,000
		St Mary	19,000
		Terrebonne	38,000
		Vermilion	21,000
		Vernon	12,000
		West Baton Rouge	8,000

State	Households per State	County	Households per County
Louisiana (continued)	705,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

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Hurricane Gustav Households Model

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